

Application No.: 09/687,734
Response dated: October 23, 2006
Reply to Office Action of: August 4, 2006

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LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for preparing a supported catalyst composition the method comprising the steps of:

- (a) contacting an activator with a porous support material to form ~~forming~~ a supported activator, said activator comprising one of an alumoxane, a modified alumoxane, a neutral ionizing activator or an ionic ionizing activator, wherein the supported activator is in a mineral oil; and
- (b) contacting the supported activator and a mineral oil with a combination comprising a ligand selected from the group consisting of cyclopentadienyl ligands, indenyl ligands, benzindenyl ligands, fluorenyl ligands, octahydro-fluorenyl ligands, cyclopentacyclododecene ligands, pentalene ligands and hydrogenated versions thereof and a metal compound;
wherein the metal compound is represented by the formula:



wherein M is a Group 4 metal from the Periodic Table of Elements and L is selected from the group consisting of hydrogen, halogen, hydrocarbyl, alkoxide, aryoxide, carboxylate, carbodionate, amide, carbamate and phosphide; and "x" is an integer depending on the valence state of metal wherein the ligand and the metal compound are contacted with the supported activator as separate components to form the supported catalyst composition.

2. (Previously Presented) The method of claim 1 wherein the ligand and the metal compound are combined in a liquid prior to contacting with the supported activator.

3. Cancelled

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4. (Currently Amended) The method of claim 3 2 wherein the activator is an alumoxane.
5. (Cancelled)
6. (Original) The method of claim 2 wherein the liquid is an aliphatic hydrocarbon.
7. (Cancelled)
8. (Cancelled).
9. (Cancelled).
10. (Currently Amended) A process for polymerizing olefin(s) in the presence of a supported catalyst system, the supported catalyst system produced by a process comprising: contacting a supported activator in a mineral oil, with a ligand and a metal compound and a mineral oil; wherein the supported activator is formed by contacting an activator with a porous support material to form a supported activator, said activator comprising one of an alumoxane, a modified alumoxane, a neutral ionizing activator or an ionic ionizing activator, wherein the ligand is selected from the group consisting of cyclopentadienyl ligands, indenyl ligands, benzindenyl ligands, fluorenyl ligands, octahydro-fluorenyl ligands, cyclopentacyclododecene ligands, pentalene ligands and hydrogenated versions thereof, with the provision that the ligand and the metal compound are separate and are not the equivalent of a preformed ligand metallocene-type compound, wherein the metal compound is represented by the formula:



wherein M is a Group 4 metal from the Periodic Table of Elements and L is selected from the group consisting of hydrogen, halogen, hydrocarbyl, alkoxide,

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aryloxide, carboxylate, carbodionate, amide, and carbamate; and "x" is an integer depending on the valence state of metal; and polymerizing said olefins in the presence of said supported catalyst ligand and the metal compound are contacted with the supported activator as separate components.

11. (Currently Amended) The process of claims 10 or 21, wherein the process is a gas phase process.
12. (Cancelled).
13. (Cancelled).
14. (Currently Amended) The process of claims 10 or 21, wherein the supported catalyst system is in a slurry state.
15. (Currently Amended) An activated olefin polymerization supported catalyst system comprising a ligand, a metal compound and a supported activator, combined in a mineral oil with the provision that the ligand and the metal compound are separate and are not the equivalent of a preformed ligand metallocene-type compound, contacted with a ligand and a metal compound; wherein the ligand is selected from the group consisting of cyclopentadienyl ligands, indenyl ligands, benzindenyl ligands, fluorenyl ligands, octahydrofluorenyl ligands, cyclopentacyclododecene ligands, pentalene ligands and hydrogenated versions thereof, wherein the metal compound is represented by the formula:



wherein M is a Group 4 metal from the Periodic Table of Elements and L is selected from the group consisting of hydrogen, halogen, hydrocarbyl, alkoxide, aryloxide, carboxylate, carbodionate, amide, and carbamate; and "x" is an integer depending on the valence state of metal and wherein the supported activator is formed by contacting an activator with a porous support material to form a supported activator, said activator comprising one of an alumoxane, a modified

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alumoxane, a neutral ionizing activator or an ionic ionizing activator and the metal compound are contacted with the supported activator as separate components.

16. (Cancelled).
17. (Cancelled).
18. (Original) The supported catalyst system of claim 15, wherein the supported activator is a supported alumoxane.
19. (Previously Presented) The supported catalyst system of claim 15, wherein the activated supported polymerization catalyst system is in a liquid.
20. (Cancelled)
21. (Previously Presented) The process of claim 10, wherein the process comprises two or more ligands, wherein said two or more ligands may be the same or different.
22. (Previously Presented) The method of claim 1, wherein the method comprises two or more ligands, wherein said ligands may be the same or different.
23. (Previously Presented) The activated olefin polymerization supported catalyst system of claim 15, wherein the activated olefin polymerization supported catalyst system comprises two or more ligands, wherein said ligands may be the same or different.